

The diagram illustrates a closed-loop refrigeration cycle. The components and their functions are as follows:

- Compressor:** Located at the top left, it circulates the refrigerant.
- Expansion valve:** Located at the top right, it reduces the pressure of the refrigerant.
- Evaporator and blower:** Located on the right, it absorbs heat from the space being cooled and circulates the air.
- Condenser and fan:** Located at the bottom left, it releases heat to the surroundings and circulates the air.

The refrigerant flows in a clockwise direction, as indicated by the arrows. The cycle is divided into four sections based on pressure and phase:

- High pressure side, gas:** Represented by a red line, flowing from the condenser to the compressor.
- High pressure side, liquid:** Represented by a yellow line, flowing from the compressor to the expansion valve.
- Low pressure side, liquid:** Represented by a dark blue line, flowing from the expansion valve to the evaporator.
- Low pressure side, gas:** Represented by a light blue line, flowing from the evaporator back to the compressor.

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Written by Administrator
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